Name Date Block

**UNIT 1 TEST REVIEW**

(Calculator Permitted)

*Indicate whether is the answer is true or false.*

1. 75 is a whole number.
2. -15 is an irrational number
3. is an integer.
4. 0.13 is a rational number
5. is a natural number
6. is a rational number
7. 0 is an integer
8. Π is an irrational number.

*Simplify each root.*

1. 10.

11.  12. 5

13. Which expression best describes the **perimeter** of the rectangle shown in the figure?

6y

5xy

1. 5xy + 6y
2. 10xy + 12y
3. 11xy
4. 30xy

*Write an verbal expression for each algebraic expression:*

14. 5m3 + 2

15. b2 - 3c3

*Match the property with the equation:*

**\_\_\_\_\_\_\_\_16**. (4 + 3) + 7 = 4 + (3 + 7) A. Distributive Property

**\_\_\_\_\_\_\_\_17**. 3 7 = 7 3 B. Commutative Property of Multiplication

**\_\_\_\_\_\_\_\_18**. 9(1 + 5) = 9(1) + 9(5) C. Associative Property of Addition

**\_\_\_\_\_\_\_\_19.** 0 · 6 = 0 D. Commutative Property of Addition

**\_\_\_\_\_\_\_\_20.** 1(48) = 48 E. Multiplicative Property of 0

**\_\_\_\_\_\_\_\_21.** (8 3) = 8 4) F. Multiplicative Identity

**\_\_\_\_\_\_\_\_22.** 4 + 9 = 9 + 4 G. Associative Property of Multiplication

*Evaluate each expression.*

25. 34 26. 30 – 5 4 + 2 27. 4[30 - (10 - 2) 3]

*Evaluate each expression if x = 6, y = 8, and z = 3.*

28. *xy* + *z 29.* 2*x* + 3*y* – *z 30.*

*Write an algebraic expression for each verbal expression***.**

31. the difference of 10 and *u*

32. the sum of 18 and a number

33. the product of 33 and *j*

34. 74 increased by 3 times *y*

35. 15 decreased by twice a number

36. 91 more than the square of a number

37. three fourths the square of *b*

38**.** two fifths the cube of a number

*Use the Distributive property to rewrite each expression. Then simplify.*

39.(9 - *p*)3 40.(5*y* - 3) 7 41.15( *f* + −1 3)

*Simplify each expression. If not possible, write simplified.*

42.*w* + 14*w* - 6*w* 43.3 (5 + 6*h*) 44.12*b2* + 9*b2*

**HONORS ALGEBRA I Vocabulary REVIEW NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**DATE\_\_\_\_\_\_\_\_\_\_\_\_\_BELL\_\_\_\_\_\_\_**

**VOCABULARY**

**Use the word bank below to complete each definition.**

#### The\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are the agreed-upon order in which operations are carried out when evaluating an expression.

#### To \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is to find the value of an expression.

#### A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a number multiplied by a variable in a term. The number is the multiplier.

#### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are expressions separated by a plus or a minus sign.

#### A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a number or variable that represents the number of times the base is used as a factor. For example, in the expression 46, 6 is the exponent.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are symbols such as () or [] that indicate the order in which operations should be performed. Operations within the innermost grouping symbols are done, first.

#### A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an expression that uses words to represent a real-life situation.

#### \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are terms that have the same variable(s) raised to the same power.

#### A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a letter that is used to represent one or more numbers.

#### A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a collection of numbers, variables, and operations.

1. To \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ means to write with the least number of terms and operation symbols, with no grouping symbols.

**WORD BANK**

**evaluate terms verbal model exponent coefficient algebraic expression**

**order of operations like terms simplify grouping symbols variable**